HP Color LaserJet 4650 series printer

4650 • 4650n • 4650dn • 4650dtn • 4650hdn





Accelerate your business with proven color performance for workgroups in a simple, efficient design.

Proven performer

- Experience improved productivity with fast color laser printing. A quick power cycle with fast calibration lets you start printing color documents right away, at up to 22 ppm with optimal print quality. The printer quickly processes large files and with a first-page-out speed of 15 seconds, your documents begin printing in no time.
- Print images and graphics effortlessly. With a high-powered 533 MHz processor and up to 544 MB of memory, this printer gracefully handles even the most complex documents.
- Print without worry. The printer software has a familiar look-and-feel and ensures that legacy print jobs still print accurately. With the quality and reliability of HP Color LaserJet printing, your documents print successfully, every time. And the printer is backed by HP's first-class service and support, with a one-year, next-day, on-site, limited hardware warranty.

Easily fits your business

- Benefit from a printer that's flexible and easy to use. The printer's display gives you complete, timely information about the printer and print jobs. HP Smart printing supplies¹ enable status monitoring, e-mail alert messages, Internet-enabled supplies ordering, and convenient remote troubleshooting. With one access point to supplies and only four cartridges to order and replace, interaction with the printer is simple and infrequent.
- Minimize user intervention. Reduce time spent replenishing paper with an input capacity of up to 1,600 sheets with the 100-sheet multipurpose tray, the 500-sheet input tray (tray 2), and the two by 500-sheet paper feeder (trays 3 and 4, standard with the HP Color LaserJet 4650hdn printer).

- Automatically produce professional two-sided documents. Routinely printing documents on both sides virtually doubles the printer's input capacity and makes paperwork more manageable (only available with HP Color LaserJet 4650dn, 4650dtn, and 4650hdn printers).
- Expand your connectivity options as your needs grow. Share high performance with the HP Jetdirect 620n Fast Ethernet print server (standard on all models except the HP Color LaserJet 4650 printer), or add wireless printing with the optional HP Jetdirect 680n wireless print server or HP bt1300 Bluetooth® Wireless Printer Adapter.²

Professional print quality

- Increase the effectiveness of your business communications. Achieve professional color output with HP's ImageREt 3600, a printing technology system offering superior image enhancements. Combined with advanced toner formulas, this technology yields smooth color transitions, crisp text, and sharp images for all of your office documents and professional marketing materials. The system works together to make automated adjustments for color consistency, delivering high-quality prints you can depend on.
- Get optimal results when printing in color. To produce sleek, professional documents and images, use HP Glossy Photo & Imaging Laser Paper and select HP High Gloss (Images) from the print driver to enable the printer's image mode. The image mode is systemoptimized for HP Glossy Photo & Imaging Laser Paper.

HP printing and imaging systems help you create powerful, professional communications easily. Printers, supplies, accessories, and services are designed together to work together and are invented to meet your business needs



¹ Using genuine HP supplies ensures availability of all HP printing features.

² For more information and a list of supported phones and other devices, go to www.hp.com/support/bluetoothprinteradapter.

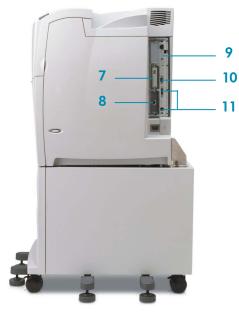
HP Color LaserJet 4650 series printer

- Control panel simultaneously displays up to four lines of text and animated graphics
- 2 Front door allows convenient access to the four HP print cartridges
- 3 Automatic two-sided printing enables fast, efficient duplexing
- 4 100-sheet multipurpose tray handles heavy custom media up to 53 lb bond (200 g/m²)
- 5 500-sheet input tray allows for media flexibility
- 6 Two by 500-sheet paper feeder (1,000-sheet pedestal) delivers highvolume printing
- 7 20 GB HP highperformance EIO hard disk
- 8 HP Jetdirect 620n Fast Ethernet internal print server
- 9 288 MB total memory and a powerful
 533 MHz processor perform complex tasks quickly
- 10 Foreign interface for third-party paperhandling solutions
- 11 Bidirectional parallel port and USB 1.1 port



Front view

HP Color LaserJet 4650hdn printer shown



Right side view

Series at a glance



4650

- 100-sheet multipurpose tray
- 500-sheet input tray
- 160 MB RAM
- 533 MHz RISC processor
- Three open EIO slots



4650n

Base model plus:

HP Jetdirect 620n
 Fast Ethernet print server in one EIO slot



4650dn

Base model plus:

- HP Jetdirect 620n
 Fast Ethernet print server in one EIO slot
- Automatic twosided printing



4650dtn

Base model plus:

- HP Jetdirect 620n
 Fast Ethernet print server in one EIO slot
- Automatic twosided printing
- 500-sheet input tray for 1,100sheet capacity
- Additional 128 MB RAM for a total of 288 MB RAM



4650hdn

Base model plus:

- HP Jetdirect 620n
 Fast Ethernet print server in one EIO
- Automatic twosided printing
- Two by 500-sheet paper feeder (1,000-sheet pedestal) for 1,600-sheet capacity
- Additional 128 MB RAM for a total of 288 MB RAM
- 20 GB HP highperformance hard disk in one EIO slot

Powerful, professional color laser printing is within reach of your business.

Fast, exceptional color output

Color is proving itself as a business tool with a clear return on investment. Studies show that color improves comprehension, increases readership, accelerates learning, and reflects a professional image. More than ever before, businesses are discovering a need to produce high-quality color documents.

With the HP Color LaserJet 4650 series printer, easily create high-impact presentations and proposals, as well as professional marketing materials to give your business the competitive edge. Print frequently updated materials in-house and on-demand, reducing outsourcing expenses, storage costs, and the waste of obsolete materials.

With HP's in-line color printing, you can print professional color documents as quickly as black-only documents—up to 22 ppm—without compromising print quality. To optimize performance, the printer features an inductive heat fuser that virtually eliminates warm-up time and enables a first-page-out speed of 15 seconds.

Experience dramatic improvements in print quality with HP's ImageREt 3600, a proprietary printing solution implemented for the first time with the HP Color LaserJet 4650 series printer. Most high-resolution technologies cause degradation in printer performance due to increased data transmission, but HP's innovative technologies achieve equivalent or better print quality without such tradeoffs.

The following printing system technologies work together to automatically deliver the best possible output for all of your documents:

- The high resolution laser imaging system adjusts laser dot size and position and precisely controls and combines colors within a single dot to create near-photographic quality images.
- The print mechanism's design enables extremely accurate alignment between critical components, which results in excellent uniformity and color plane registration.
- HP's industry-leading image enhancements deliver excellent tones, sharpness, and clarity.
- Special printing modes provide excellent gloss matching, so that the shininess of the printed image matches the gloss of the media. The printer's image mode is optimized for image printing with HP Glossy Photo & Imaging Laser Paper.

- Intelligent color controls produce color that is the same—page after page—over printer life.
- HP Smart printing supplies include chemically-grown toner with small particles that are more uniform and spherical than traditional manufactured toners, resulting in fine detail, bright saturated colors, and a good ability to match the screen (sRGB color).

Easy, flexible printing

Designed with medium to large office workgroups in mind, the printer is simple to install, use, and maintain.

- Gain quick access to the four easy-to-replace print cartridges through a single front door. The simple paper path design results in fewer and easier interactions with the printer.
- Minimize printer downtime when you use genuine HP Smart printing supplies³ that enable status monitoring, proactive alert messages, Internet-enabled supplies ordering, and convenient remote troubleshooting.
- Get complete, timely information about the printer and print jobs. Designed for quick and easy troubleshooting and configuration, the control panel displays up to four lines of text and animated graphics simultaneously.
- Access all printer information from the HP Toolbox software, including documentation, self-help and troubleshooting tips, printer status, and links to HP Instant Support and the HP Embedded Web Server, which lets you manage printing functions from your computer (for networked printers).
- Enjoy high-speed network printing with simple network installation, driver distribution, and remote management through HP Web Jetadmin.

Service and support from HP

HP offers a variety of support options to assist you with setup and maintenance. Start with the standard one-year limited hardware warranty that includes phone support backed by award-winning HP Customer Care. To further ensure trouble-free operation and to maximize the capabilities of your printer, you can upgrade your service and support options to include network installation and extended printer maintenance.

³ Using genuine HP supplies ensures availability of all HP printing features.

HP Color LaserJet 4650 series printer

Technical specifications	HP Color LaserJet 4650	HP Color LaserJet 4650n	HP Color LaserJet 4650dn	HP Color LaserJet 4650dtn	HP Color LaserJet 4650hdn	
Print speed ⁴	Up to 22 ppm					
First page out	15 seconds					
Resolution	600 by 600 dpi with HP ImageREt 3600					
Processor	533 MHz RISC					
Memory	160 MB standard; 544 MB maximum; one available DIMM slot			288 MB standard; 544 MB max	ximum; one available DIMM slot	
Flash memory	Two available slots for font cards or third-party solutions ⁵					
Duty cycle			Up to 85,000 pages per month			
Media						
Media handling	100-sheet multipurpose tray, 500-sheet tray 2			100-sheet multipurpose tray, 500-sheet tray 2, 500-sheet tray 3	100-sheet multipurpose tray, 500-sheet tray 2, two by 500-sheet paper feeds (pedestal, trays 3 and 4)	
Output capacity	250-sheet face-down output bin					
Duplex printing	Manual two-sided printing Automatic two-sided printing					
Sizes	Multipurpose tray: 3 by 5 in (76.2 by 127 mm) to 8.5 by 14 in (216 by 356 mm); letter, legal, executive, A4, A5, B5 (JIS), executive (JIS), envelopes (No. 10, Monarch, C5, DL, B5) Trays 2, 3, and 4: 7.2 by 8.2 in (182 by 210 mm) to 8.5 by 14 in (216 by 356 mm); letter, legal, executive, A4, A5, B5 (JIS)					
Weights	Multipurpose tray: 16 to 53 lb bond (60 to 200 g/m²); Trays 2, 3, and 4: 16 to 28 lb bond (60 to 105 g/m²)					
Types	Multipurpose tray: paper (plain, glossy, colored, preprinted, letterhead, recycled, HP Tough and HP High Gloss Laser), envelopes, transparencies, labels, cardstock Trays 2, 3, and 4: paper (plain, glossy, recycled), transparencies					
Connectivity						
Interfaces	Bidirectional IEEE-1284-C parallel port, USB 1.1 port					
EIO slots available	Three		Two		One	
Languages	HP PCL 6, HP PCL 5c (web download), HP postscript level 3 emulation, native PDF printing, optional mobile phone and PDA printing via the HP bt1300 adapter					
Fonts	80 internal TrueType™ fonts scalable in HP PCL and HP postscript level 3 emulation; additional font solutions available via DIMMs					
Client operating systems	Microsoft® Windows 98, 98 SE, NT 4.0, Me, 2000, XP 32-Bit, Server 2003 32-Bit; Mac OS 9.0 and later, OS X.0 and later; UNIX®; Linux; HP OpenVMS; OS/2					
Network operating systems ⁷	Via HP Jetdirect print servers: Microsoft Windows 98, Me, NT 4.0, 2000, XP, XP 64-Bit, 2003 Server; Apple Mac OS 8.6 and later; Novell NetWare 3.2, 4.2, 5.x, 6; Red Hr.					
1 3 /	Linux 6.x and later; SuSE Linux 6.x and later; HP-UX 10.20, 11.x; Solaris 2.5x, 2.6, 7, 8 (SPARC systems only); IBM AIX 3.2.5 and later (requires software from vendor); MPE-i					
Network protocols	Via HP Jetdirect print servers: TCP/IP, IPX/SPX, AppleTalk, Apple Rendezvous compatible, DLC/LLC, Auto-IP, IP Direct Mode, NDS, Bindery, NCP, NDPS, iPrint, Telnet,					
supported ⁷	IGMP, BOOTP/DHCP, WINS, SNMP v 1 and v 2c, HTTP; may require software from the NOS vendor or third-party vendor: LPD, FTP Printing, IPP					
Dimensions (h by d by w)	22.3 b	y 20 by 18.9 in (567 by 508 by 4	81 mm)	27.3 by 20 by 18.9 in	40.7 by 25.4 by 18.9 in	
		, , , , ,	•	(694 by 508 by 481 mm)	(1,034 by 646 by 481 mm)	
Weight		81 lb (36.8 kg)			145 lb (65.8 kg)	
What's in the box	4650 printer, 100-sheet	4650n printer, 100-sheet	4650dn printer, 100-sheet	4650dtn printer, 100-sheet	4650hdn printer, 100-sheet	
	multipurpose tray, 500-sheet tray,	multipurpose tray, 500-sheet tray,	multipurpose tray, 500-sheet tray,	multipurpose tray, two 500-sheet	multipurpose tray, 500-sheet tra	
	power cable, IEEE 1284-C	power cable, CD-ROM (includes	power cable, CD-ROM (includes	trays, power cable, CD-ROM	two by 500-sheet paper feed	
	parallel cable, CD-ROM (includes	User Guide and printer software),	User Guide and printer software),	(includes User Guide and printer	power cable, CD-ROM (include	
	User Guide and printer software), Setup Poster, Getting Started Guide, and HP cyan, yellow, magenta, and black print cartridges	Setup Poster, Getting Started Guide, HP Jetdirect 620n print server, and HP cyan, yellow, magenta, and black print cartridges	Setup Poster, Getting Started Guide, HP Jetdirect 620n print server, and HP cyan, yellow, magenta, and black print cartridges	software), Setup Poster, Getting Started Guide, HP Jetdirect 620n print server, and HP cyan, yellow, magenta, and black print cartridges	User Guide and printer softwa Setup Poster, Getting Starter Guide, HP Jetalirect 620n pri server, HP high-performance hard disk, and HP cyan, yello magenta, and black print cartridges	

Environmental ranges

Warranty

Operating: 50 to 86 degrees F (10 to 30 degrees C) Operating temperature: Recommended: 62.6 to 77 degrees F (17 to 25 degrees C) Operating: 10 to 80 percent relative humidity Recommended: 30 to 70 percent relative humidity Relative humidity:

0 to 8530 ft (0 to 2600 m) Altitude

Power: active: 6.5 B(A); standby: 5 B(A)

Pressure (bystander): active: 51 dB(A), standby: 34 d(B)A Input 110 to 127 V (±10 percent), 50/60 Hz (±2 Hz) voltage: 220 to 240 V (±10 percent), 50/60 Hz (±2 Hz) Power requirements

Active: 560 watts

(Energy-saver sleep Standby: 38 watts (4650hdn: 40 watts) PowerSave: 26 watts (4650hdn: 31 watts) mode, ENERGY STAR®

Off: 0.3 watts compliant)

Power certifications EMC: FCC Title 47 CFR, Part 15 Class B/ICES-003, Issue 4 $\,$

Canada (cUL-CAN/CSA C22.2 No.60950-00), USA (UL-UL 60950; FDA-21 CFR Chapter 1 Subchapter J

for lasers); Class 1 Laser/LED Product

One-year, next day, on-site, limited hardware warranty



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For more information visit our website at www.hp.com 5982-3557ENUC, 03/2004

Ordering information

Product	Number				
HP Color LaserJet 4650 printer	Q3668A				
HP Color LaserJet 4650n printer	Q3669A				
HP Color LaserJet 4650dn printer	Q3670A				
HP Color LaserJet 4650dtn printer	Q3671A				
HP Color LaserJet 4650hdn printer	Q3672A				
Connectivity					
HP Jetdirect 620n Fast Ethernet internal print server	J7934A				
HP Jetdirect 680n wireless Fast Ethernet internal print server	J6058A				
HP bt1300 Bluetooth® Wireless Printer Adapter	J6072A				
Paper handling					
500-sheet input tray	Q3673A				
Two by 500-sheet paper feeder (1,000-sheet pedestal)	Q3674A				
Printer cabinet	C9667A				
HP Smart printing supplies					
HP LaserJet black print cartridge (9,000 pages at 5% coverage)	C9720A				
HP LaserJet cyan print cartridge (8,000 pages at 5% coverage)	C9721A				
HP LaserJet yellow print cartridge (8,000 pages at 5% coverage)	C9722A				
HP LaserJet magenta print cartridge (8,000 pages at 5% coverage)	C9723A				
Memory and storage					
20 GB HP high-performance EIO hard disk	J6073A				
128 MB DDR SDRAM	Q2630A				
256 MB DDR SDRAM	Q2631A				
512 MB DDR SDRAM	Q2632A				
Cables					
Appletalk interface cable, 1 meter	92215N 92215S				
Macintosh printer cable, 2 meter	92215S C2946A				
Parallel cable, 3-meter IEEE 1284 (a to c)	C2946A C2947A				
Parallel cable, 10-meter IEEE 1284 (a to c) HP Care Packs	C294/A				
HP Care Packs HP Care Pack, network installation	H2872F				
	H3113F				
HP Care Pack, 3-year, next business day, onsite HP Care Pack, 3-year, same day, onsite	H3118F				
Media nr Care rack, 3-year, same day, onsite ns 1165					
www.hp.com/go/everydaypapers or in the U.S., call 1-800-477-5010					
Third-party solutions					
www.hp.com/go/gsc					



Exact speed varies depending on the system comfiguration, solvate application, arriver, and accument complexity.

For third-party solutions, go to: www.hp.com/go/gsc.

Driver support is provided for 64-bit OS, but no installer or toolbox support.

Not all protocol and operating system combinations are supported. For more information, go to: www.hp.com/support/net_printing.